

U.S. Department of Energy
Washington, D.C.

PAGE CHANGE

DOE O 425.1 Chg 1
10-26-95

SUBJECT: STARTUP AND RESTART OF NUCLEAR FACILITIES

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1. PURPOSE. To transmit revised pages to DOE O 425.1, STARTUP AND RESTART OF NUCLEAR FACILITIES, of 9-29-95.
2. EXPLANATION OF CHANGE. Based on a decision by the Directives Management Board, Departmental Safety Orders, and other selected Orders, will reflect no expiration date to clarify that they will remain in effect until superseded or replaced. Therefore, these Orders will show only an Approval Date and Review Date. The Directives System review cycle is discussed in DOE M 251.1-1, DIRECTIVES SYSTEM MANUAL, of 10-16-95.
3. FILING INSTRUCTIONS.
- a.

<u>Remove Pages</u>	<u>Dated</u>	<u>Insert Pages</u>	<u>Dated</u>
1 and 2	9-29-95	1	10-26-95
		2	9-29-95
- b. After filing the attached pages, this transmittal may be discarded.

BY ORDER OF THE SECRETARY OF ENERGY:



ARCHER L. DURHAM
Assistant Secretary for
Human Resources and Administration

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INITIATED BY:
Office of Human Resources and
Administration

U.S. Department of Energy
Washington, D.C.

ORDER

DOE O 425.1

Approved: 09-29-95
Review Date: 09-29-97

SUBJECT: STARTUP AND RESTART OF NUCLEAR FACILITIES

Chg 1: 10-26-95

1. OBJECTIVE. To establish the requirements for startup of new nuclear facilities and for the restart of existing nuclear facilities that have been shutdown. The requirements specify a readiness review process that shall, in all cases, demonstrate that it is safe to startup (or restart) the applicable facility. The facility shall be started up (or restarted), only after documented independent reviews of readiness have been conducted and the approvals specified in this Order have been received. The readiness reviews are not intended to be tools of line management to confirm readiness. Rather, the readiness reviews provide an independent review of readiness to start or restart operations.
2. CANCELLATION. DOE 5480.31, STARTUP AND RESTART OF NUCLEAR FACILITIES, of 9-15-93. Cancellation of an Order does not, by itself, modify or otherwise affect any contractual obligation to comply with such an Order. Canceled Orders incorporated by reference in a contract shall remain in effect until the contract is modified to delete the reference to the requirements in the canceled Orders.
3. APPLICABILITY.
 - a. DOE Elements. Except for the exclusions in paragraph 3c, below, this Order applies to all nuclear facilities classified as hazard categories 1, 2, or 3.
 - b. Contractors. Except for the exclusions in paragraph 3c, below, the Contractor Requirements Document (CRD), Attachment 1, sets forth requirements that are to be applied to the universe of contractors awarded contracts for the operation and management of a DOE-owned or -leased facility. Contractor compliance with the CRD will be required to the extent set forth in a contract. Contractors shall be directed to continue to comply with the requirements of Orders canceled by this Order until their contracts are modified to delete the reference to the requirements of the canceled Orders.
 - c. Exclusions.
 - (1) Activities regulated through a license by the Nuclear Regulatory Commission (NRC) or a State under an Agreement with NRC, including activities certified by the NRC under section 1701 of the Atomic Energy Act.
 - (2) Activities conducted under the authority of the Director, Naval Nuclear Propulsion Program as described in Public Law 98-525.

Vertical line denotes change.

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Office of Environment, Safety
and Health

- (3) Activities conducted under Nuclear Explosives and Weapons Safety Programs relating to the prevention of accidental or authorized nuclear detonations to the extent a requirement under this Order cannot be implemented for a particular facility in a manner that does not compromise the effectiveness of such activities.
 - (4) Activities regulated by the Department of Transportation or pursuant to 49 CFR 173.7(b)
 - (5) DOE nuclear facilities that are classified as below hazard category 3.
4. REQUIREMENTS. DOE-STD-3006-95 provides guidance on approaches and methods approved as acceptable for implementing the requirements of this Order. Other approaches and methods may be used provided they are justified, documented, and approved as being in accordance with the requirements of this Order by the authorization authority for startup or restart.
- a. General.
- (1) Operational Readiness Review. DOE line management shall determine (and ensure that contractor management determines) if Operational Readiness Reviews are required for startup of new nuclear facilities or restart of a nuclear facility using the requirements given below. DOE shall conduct (and ensure that contractors conduct) an Operational Readiness Review in accordance with this Order when any of the following conditions occur:
 - (a) Initial startups of new hazard categories 1, 2, and 3 nuclear facilities.
 - (b) Restart after a nuclear facility unplanned shutdown directed by a DOE management official for safety or other appropriate reasons.
 - (c) Restart after an extended shutdown for hazard categories 1 and 2 nuclear facilities. Extended shutdown for a hazard category 1 nuclear facility is 6 months. Extended shutdown for a hazard category 2 nuclear facility is 2 months.
 - (d) Restart of hazard categories 1 and 2 nuclear facilities after substantial process, system, or facility modifications that require changes in the safety basis previously approved by DOE.
 - (e) Restart after a nuclear facility shutdown because of operations outside the safety basis.